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(54) LITHOGRAPHIC PRINTING ORIGINAL PLATE, AND LITHOGRAPHIC PRINTING METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To perform a plate-making by a scanning exposure of a short period of time, and at the same time, improve the printing resistance and reduce printing blemish by making a layer comprising a hydrophilic medium, which is provided on a supporting body, contain a hydrophobic precursor, of which the surface is hydrophilic, and a light-heat converting agent, which itself, or at least the surface of which is hydrophilic.

SOLUTION: In a layer comprising a hydrophilic medium, which is provided on a supporting body, a hydrophobic precursor, of which the surface is hydrophilic, and a light-heat converting agent, which itself, or at least the surface of which is hydrophilic, are contained. In this case, the layer comprising the hydrophilic medium is made to be sol-gel convertible. Also, the hydrophobic precursor, of which the surface is hydrophilic, encloses a hydrophobic substance in the core section, and also, is a particle dispersed substance of a composite constitution, having a surface layer section, of which the surface is hydrophobic. In addition, in the light-heat converting agent, the surface is a solid particle, which is selected from a hydrophilic metal, a metal compound, a pigment and a carbon simple substance, or a hydrophilic dye,

which can be dissolved with the hydrophilic medium. In the meantime, a water-soluble protective layer may be provided on the surface of this lithographic printing original plate.

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